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Review Test Submission: Quiz 4.2

User	David Kirby
Course	Intro to Control Systems - Fall 2020 Section Group I67
Test	Quiz 4.2
Started	9/15/20 8:34 AM
Submitted	9/15/20 8:36 AM
Status	Completed
Attempt Score	4 out of 4 points
Time Elapsed	2 minutes
Results Displayed	d Submitted Answers, Incorrectly Answered Questions

Question 1 1 out of 1 points



True or false?

The poles of the transfer function G(s) are the same as the eigenvalues of the system matrix A.

Selected Answer: True

Question 2 1 out of 1 points



Which of the following correctly describe the characteristic equation? (More than one answer may be correct.)

For the transfer function $G(s) = \frac{N(s)}{D(s)}$, the characteristic equation is D(s) = 0. Selected Answers:

For the state-space system (A,B,C,D), the characteristic equation is |SI-A|=0.

Question 3 1 out of 1 points



Which of the following statement(s) are correct? The characteristic equation is important because...

Selected

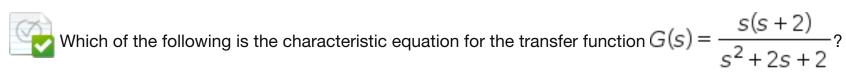
Answers: The poles of the transfer function are solved through the characteristic

equation.

The poles of the transfer function determine the type of transient response.

Question 4

1 out of 1 points



Selected Answer:

$$s^2 + 2s + 2 = 0$$

Wednesday, September 30, 2020 11:09:48 AM MDT